

In the claims:

The following claims are or have been pending in the present application:

1. (Cancelled)
2. (New) An apparatus for producing aerosolized medicament, the apparatus comprising:
a reservoir containing a powder medicament to be aerosolized, the powder medicament comprising a protein or polypeptide; and
a chamber comprising an inlet and a mouthpiece, wherein gas may flow into the chamber through the inlet and may flow out of the chamber through the mouthpiece and wherein the flow of gas aerosolizes the powder medicament,
wherein at least 40 percent by weight of the powder medicament is suspended by the gas in the chamber for delivery through the mouthpiece.
3. (New) An apparatus according to claim 2 wherein the chamber volume is from 100 ml to 750 ml.
4. (New) An apparatus according to claim 2 further comprising a source of compressed gas, wherein the compressed gas may be released from the source of compressed gas to cause the flow of gas to aerosolize the medicament.
5. (New) An apparatus according to claim 2 wherein the chamber is adapted to contain the aerosolized medicament for subsequent delivery to a patient during a patient's inhalation.
6. (New) An apparatus according to claim 2 wherein the chamber is cylindrical.
7. (New) An apparatus according to claim 2 wherein the aerosolized medicament comprises small particles of medicament, the particles being sized to be deliverable to the alveolar regions of the lungs of a patient.

8. (New) An apparatus according to claim 7 wherein the particles are predominantly 1 to 5 micrometers in diameter.

9. (New) An apparatus according to claim 2 wherein at least 55 percent by weight of the powder medicament is suspended by the gas in the chamber for delivery through the mouthpiece.

10. (New) An apparatus according to claim 2 wherein at least 70 percent by weight of the powder medicament is suspended by the gas in the chamber for delivery through the mouthpiece.

11. (New) An apparatus for producing aerosolized medicament, the apparatus comprising:

a reservoir containing a powder medicament to be aerosolized, the powder medicament comprising a protein or polypeptide; and

a chamber comprising an inlet and a mouthpiece, wherein gas may flow into the chamber through the inlet and may flow out of the chamber through the mouthpiece and wherein the flow of gas aerosolizes the powder medicament,

wherein the volume of the aerosolized medicament is from 9.24 percent to 21.5 percent of the volume of the chamber.

12. (New) An apparatus according to claim 11 wherein the chamber volume is from 100 ml to 750 ml.

13. (New) An apparatus according to claim 11 further comprising a source of compressed gas, wherein the compressed gas may be released from the source of compressed gas to cause the flow of gas to aerosolize the medicament.

14. (New) An apparatus according to claim 11 wherein the chamber is adapted to contain the aerosolized medicament for subsequent delivery to a patient during a patient's inhalation.

15. (New) An apparatus according to claim 11 wherein the chamber is cylindrical.

16. (New) An apparatus according to claim 11 wherein the aerosolizes medicament comprises small particles of medicament, the particles being sized to be deliverable to the alveolar regions of the lungs of a patient.

17. (New) An apparatus according to claim 16 wherein the particles are predominantly 1 to 5 micrometers in diameter.

18. (New) An apparatus according to claim 11 wherein at least 40 percent by weight of the powder medicament is suspended by the gas in the chamber for delivery through the mouthpiece.

19. (New) An apparatus according to claim 11 wherein at least 70 percent by weight of the powder medicament is suspended by the gas in the chamber for delivery through the mouthpiece.